

RESUME



Name : R.Manikandan
Designation : Teaching Fellow
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Academic Qualification

Course	Educational Institution	Class	Year of Passing
M.Tech Ceramic Technology	Anna University	First	2013
B.Tech Ceramic Technology	Anna University	First	2008

Areas of Interest/Research

- Aerogel composites
- Glass
- Bio Materials
- Refractories
- Material Science and Material Characterization

Academic Experience

S.No.	Designation	Institution / University	Duration
1.	Teaching Fellow	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	July 2019 onwards
2.	Assistant Professor & HOD(i/c)	Department of Material Science and Engineering, Mohamed Sathak A J College of Engineering, IT Highway, Siruseri, Chennai - 603 103	August 2015 to May 2019
3	Senior Lecturer	Department of Material Science and Engineering, CARE Group of Institutions ,	July 2013 to June 2015

		Dindigul Road, Trichy - 620 009.	
4	Lecturer	Department of Metallurgy, Annai JKK Sampoorniammal Polytechnic College, T.N.Palayam Post, Erode - 638 506	Nov 2008 to June 2011

Funded Research Projects

Funding Agency	Title of the Project	Amount	Ongoing/ Completed
Nil			

LIST OF PUBLICATIONS

International / National Journals

1. M.Krishnan, **R.Manikandan**, D.Thenmuhil, “Effect of heat treatment and zircon adition on the properties of low-cement castables based on recycled alumina grog” , Ceramic Internationals, (2020).
2. L.Prince Jeya Lal, **R.Manikandan**, C.P.Suryanarayanan, “ Experimental Study of Wear Rate Coefficient of Auminium Hybrid Composites by Stir Casting”, International journal of Innovative Research in Advanced Engineering(IJIRAE) ISSN: 2349-2763, Issue 08, Volume 3 , (2016).
3. S.R.Venkatasubramanian, **R.Manikandan**, K.Abirami, V.Karthikeyan, Subhalakshmi S, “ Synthesis and Characterization of Alumina Aerogel by Epoxide Assisted Method and Subcritical Drying”, International Journal of Engineering Science Invention”, ISSN (online):2319-6734, ISSN (Print): 2319-6726, PP. 31-35, (2017)

International / National Conference/Seminars/Symposium

1. Presented Research Paper on “ Effect of Rotation Rate on joint line Remnant and Tensile Properties upon the Friction Stir Welded 7020 Alloy” in the National Conference on “

Materials for Energy and Environment (NCMEE-2012)” held on 6th April 2012, organized by Department of Science and humanities, Chendu College of Engineering & Technology(CCET) , Maduranthagam, Kancheepuram.

2. Poster Presented a research Paper on “ Influence of Oxide Additives on Microstructure, Magnetic Properties and Impedance Analyze of Nano-Crystalline Mg-Mn Ferrite for High Frequency Application Processed by Co-Precipitation Method” in the National Seminar on “ Advanced Materials and their Application (NSAM-2013)” held on 27-28th February 2013, organized by Department of Physics, University College of Arts& Social Science, Osmania University, Hyderabad.
3. Presented Research Paper on “ Evaluation of the Effect of Additive Doped in Nano-Sized $Mn_{0.9}Mg_{0.1}Fe_2O_3$ ” in the National Conference on “ Smart Materials and Technologies for Emerging Electronics(NC-SMTEE-2013)” held on 8-9th March 2013, organized by the Department of Mechanical Engineering , Mangalore Institute of Technology and Engineering(MITE), Moodabidri, Mangalore, Karnataka.
4. Presented a Research Paper on “Synthesis and Magnetic Properties , Structural and Impedance Analysis of Nano-Sized $Mn_{0.9}Mg_{0.1}Fe_2O_3$ and $Mn_{0.9}Mg_{0.1}Fe_{2-2x}Ni_xZn_xO_4$ ” in the National Conference on “Emerging Trends in Materials, Manufacturing and Designs(ETMMD-13)”, held on 7-8th May 2013, organized by the Department of Mechanical Engineering, Mepco Schlenk Engineering College, Sivakasi.

Publication Details: (Provide only the count)

Category	Conferences	Journals
National	-	-
International	-	3

Ph D / MS / M Tech / B. Tech Guidance : NA

M Tech / B. Tech Guidance

Category	Completed	Ongoing
M. Tech	1	-
B. Tech	28	-

Guest lecturers delivered: NA

Awards and Recognitions:

- Received best performer award in the Department of Materials Science and Engineering for the academic year 2018-2019 by Mohamed Sathak A J College of Engineering , Siruseri IT Park , Chennai -103.
- Received certificate of achievement in the Department of Materials Science and Engineering for produced 100% result in paper title “ Materials Structure and Properties” in Anna University Examinations which was held during Nov/Dec 2015 and Jan 2016.
- Received certificate of achievement in the Department of Materials Science and Engineering for produced 100% result in paper title “ Polymer Process Engineering ” in Anna University Examinations which was held during April/May 2016 and April / May 2017.
- Received certificate of achievement in the Department of Materials Science and Engineering for produced 100% result in paper title “ Semiconductor Optoelectronics Materials Devices” in Anna University Examinations which was held during April / May 2017.

Academic Responsibilities

- Anna University Semester Exam cell Coordinator (2013-2017) and In-Charge (2018-2019)
- Class Coordinator (2013-2017)
- Documentation Cell member (2013-2015)
- Department Research Coordinator (2016 -2019)
- Co- Convener of Institute-Industry-Interaction Cell- I.I.I Cell (2016-2019)
- Established Composite Materials, Advanced Materials Characterization, Heat Treatment and Metal Forming and Welding Analysis Laboratories in Mohamed Sathak A.J College of Engineering.
- Developed Microstructure Analysis and Foundry laboratories in Mohamed Sathak A.J College of Engineering

Workshops / Seminar / Short term Courses / FDP Organized

Role	Name of the Programme	Duration
Co-Convener	Workshop on “X-ray Diffraction(XRD) and Scanning Electron Microscope (SEM)”	25 th and 26 th September 2013

Co-Convener	One day workshop on “Origin Lab Software for Scientific Data Analysis and Graphing”	28th Feb 2014
Co-Convener	One day seminar on “Extract a Publication from the Project Work”	15 th March 2014
Convener	Q-Dip-14”, a National Level Technical Workshop for Diploma Students	4th Sep 2014
Organizer	Two Days National Conference on “Advances in Next Generation Materials (NxGn-M)	7 th and 8 th November 2013
Convener	One day workshop on “Microscopic Studies of Materials”	18 th October 2016.

Workshops / Seminar / Short term Courses / FDP Attended

S. No	Name of the Event	Duration	Organized by
1	National Level Seminar on “Advanced Material: Processing and its Applications(NSAMPA-2012)	March 29-30 th , 2012	Bharathiyar University, Coimbatore
2	Indo-UK Workshop on “Advanced Materials Engineering and Technology	July 27-28 th 2012	Anna University, Chennai
3	National Conference on “Advanced in Materials and Processing”	May 4 th 2013	PSG College of Technology, Coimbatore.
4	TEQIP-II Sponsored one week FDP on “ Advanced Materials and Processing” organized by Dept. of Metallurgical Engineering.	May 23-29 th , 2014	PSG College of Technology, Coimbatore.
5	One day Seminar on “Refractory: Materials, Installation and Application	5 th October 2016	Anna University, Chennai
6	Two days FDP on “Recent Developments in Non-destructive Testing & Materials (RDNDT&M 16)	1-2 nd December 2016	Tagore Engineering College, Rathinamangalam, Chennai-127.

7	One day National Workshop on “ Laser Scattering Techniques Using Laser Sensor	24 th February 2017	Mohamed Sathak A J College of Engineering, Chennai-103
8	One day Seminar on “Ceramic Composites	22 nd Sep 2017	Anna University, Chennai-25.
9	One day national Workshop on “e-Learning and MOOCs in Higher Education”	14th Sep 2019	Guru Anged Dev Teaching Learning Centre of MHRD, SGTB Khalsa College , University of Delhi and Anna University Chennai.
10	One day awareness workshop on “ Intellectual Property Rights-2019 (IPR-2019)”	27th Sep 2019	Centre for Intellectual Property Rights(CIPR), Anna University, Chennai
11	FDP Webinar on “Research Publications and Ethical Issues”	28-29th June 2020	Hisashi-Excellence Education Pvt. Ltd
12	FDP webinar on “ Modern Materials and Industrial Automation”	20-25th June 2020	Sri Sai Ram Institute of Technology, Chennai
13	5 days FDP on 1. Natural Fiber Composites-Present & Future. 2. Modes of Failure in welded Ti6Al4V alloys 3. Advance in Composite Materials 4. Metallic Materials for Light weighting automotive & Aerospace Systems and 5. Advance in Fluid Dynamics Research.	20-24th June 2020	Rohini College of Engineering and Technology, Tamilnadu
14	Online FDP on “ Advanced Manufacturing Technology”	28th June to 4th July 2020	Karpagam College of Engineering, Coimbatore -32
15	One day webinar on “ Guidelines for writing and publishing a technical paper in reputed journals”	13th June 2020	Power Innovative Research Consultancy (PIRC), Chennai-94

16	Webinar on “ How to write Effective and Successful Research Funded Projects”	22nd June 2020	Power Innovative Research Consultancy (PIRC), Chennai-94
17	One day webinar on “ Inputs for Effective Research Writing”	3rd July 2020	NIFT-TEA college of Knitwear Fashion, Trippur
18	Online FDP on “ Industry 4.0”	2-4th July 2020	Dr.M.G.R Educational & Research Institute, Chennai-95
19	FDP on “ Nanomaterials Synthesis, Process, Characterization and its Functional Applications”	6-11th July 2020	Hindusthan College of Engineering & Technology, Coimbatore.
20	One day webinar on “ Advances in the Synthesis of Biopolymer-Composites for Biological Applications	10th July 2020	Saveetha Engineering College
21	One day webinar on “ Additive Manufacturing Fundamentals & Applications”	14th July 2020	Francis Xavier Engineering College, Tirunelveli-3
22	5 days FDP on “ Recent advances in Synthesis, Characterization and Applications of Nanomaterials”	13th-17th July 2020	GMR Institute of Technology, Kakinad.
23	One day webinar on “ Smart Materials: A Brief Introduction & its Future Applications”	20th July 2020	University Visvesvaraya College of Engineering, Bangalore-1
24	3 days national webinar on “ Secondary melting & Processing Technology(SMPT-2020)	23-25th July 2020	Mahatma Gandhi Institute of Technology, Hydrabad.
25	One week online FDPon “ Functional Materials” Processing and Applications” (FMPA 2020)	03-08th August 2020	Mahatma Gandhi Institute of Technology, Hydrabad.
26	One week FDP on “ Advances in Nanomaterials & their Engineering Applications” (AdvNano-2020)	3-8th August 2020	GMR Institute of Technology, Kakinad.

27	Online elementary FDP on “Novel Materials”	23-27 th August 2021	AICTE, ATAL Academy at SRM Institute of Management and Technology, Delhi-NCR campus, Ghaziabad(U.P)
28	Webinar on “ Turning an Idea into a Patent”	29 th August 2021	Universal Intellectual Trust, Villupuram

Countries visited: NA

Membership, Committees, Boards etc: NA

Other Interest

- Handled Scanning Electron Microscope, TESCAN, Japan Maker
- Handled X-Ray Diffraction Unit, RIGAKU-Miniflex 600
- Handled Ultrasonic Flaw Detector, Einstein-II TFT
- Completed “American Society for Non-Destructive Testing” – Level-II Course in Liquid Penetrant Testing, Magnetic Particle Inspection, X-Ray Radiography and Ultrasonic Testing at Institute of Inspection Technology and NDT Resources, Trichy